

Patent Claims:

1 – 10 (canceled)

11. (new) A wind power unit and a flow field, comprising:

a mast;

a nacelle associated with the mast;

a rotor associated with the nacelle;

a plurality of rotor blades, at least one rotor blade having a plurality of recesses to improve flow arranged on the rotor blades approximately in the region between the transition point between laminar and turbulent flow and the final edge of the rotor blade and the shape and configuration of the recesses are designed such that as the air sweeps past the recess, an eddy forms in the recess that assists the passage of the air and accelerates the air volume.

12. (new) The wind power unit according to claim 11, wherein the recesses are arranged on a component selected from the group consisting of: the mast, the gondola, and the rotor.

13. (new) The wind power unit according to claim 11, wherein the recesses essentially have the shape of a hemisphere or a half-teardrop.

14. (new) The wind power unit according to claim 11, wherein the recesses are arranged regularly.

15. (new) The wind power unit according to claim 11, wherein the recesses are arranged in rows.

16. (new) The wind power unit according to claim 15, wherein the rows are arranged offset in respect of each other.

17. (new) The wind power unit according to claim 11, wherein the recesses are configured on a flat support material, which can be fixed on or to the wind power unit.

18. (new) The wind power unit according to claim 17, wherein the support material is a film.

19. (new) The wind power unit according to claim 11, wherein a structure and profiles of the rotor blades are tailored to a stall speed as modified by the recesses.

20. (new) The wind power unit according to claim 11, wherein control software is tailored to a stall speed as modified by the recesses.

21. (new) The wind power unit according to claim 11, wherein a component surface is not susceptible to dirt and ice.